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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2009; month=1; day=12; hr=16; min=39; sec=32; ms=229; ]

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Application No: 10568745 Version No: 1.0

**Input Set:****Output Set:**

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**Finished:** 2008-12-30 16:10:58.883  
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 85 ms  
**Total Warnings:** 30  
**Total Errors:** 2  
**No. of SeqIDs Defined:** 30  
**Actual SeqID Count:** 30

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**Input Set:**

**Output Set:**

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Error code	Error Description
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# SEQUENCE LISTING

<110> IDENO, Mitsuko  
 MURAKI, Nobuko  
 OGAWA, Kinuko  
 KISHIMOTO, Masayuki  
 ENOKI, Tatsuji  
 SAGAWA, Hiroaki  
 KATO, Ikunoshin

<120> PROCESS FOR PRODUCING CYTOTOXIC LYMPHOCYTES

<130> 1422-0709PUS1

<140> 10568745  
 <141> 2008-12-30

<150> PCT/JP2004/012238  
 <151> 2004-08-19

<150> JP 2003-298208  
 <151> 2003-08-22

<150> JP 2004-699  
 <151> 2004-01-05

<150> JP 2004-115648  
 <151> 2004-04-09

<150> JP 2004-222441  
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Pro Thr Asp Leu Arg Phe Thr Asn Ile Gly Pro Asp Thr Met Arg Val  
 1 5 10 15

Thr Trp Ala Pro Pro Pro Ser Ile Asp Leu Thr Asn Phe Leu Val Arg  
 20 25 30

Tyr Ser Pro Val Lys Asn Glu Glu Asp Val Ala Glu Leu Ser Ile Ser  
 35 40 45

Pro Ser Asp Asn Ala Val Val Leu Thr Asn Leu Leu Pro Gly Thr Glu  
50 55 60

Tyr Val Val Ser Val Ser Ser Val Tyr Glu Gln His Glu Ser Thr Pro  
65 70 75 80

Leu Arg Gly Arg Gln Lys Thr  
85

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<211> 90

<212> PRT

<213> Artificial Sequence

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Gly Leu Asp Ser Pro Thr Gly Ile Asp Phe Ser Asp Ile Thr Ala Asn  
1 5 10 15

Ser Phe Thr Val His Trp Ile Ala Pro Arg Ala Thr Ile Thr Gly Tyr  
20 25 30

Arg Ile Arg His His Pro Glu His Phe Ser Gly Arg Pro Arg Glu Asp  
35 40 45

Arg Val Pro His Ser Arg Asn Ser Ile Thr Leu Thr Asn Leu Thr Pro  
50 55 60

Gly Thr Glu Tyr Val Val Ser Ile Val Ala Leu Asn Gly Arg Glu Glu  
65 70 75 80

Ser Pro Leu Leu Ile Gly Gln Gln Ser Thr  
85 90

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<211> 94

<212> PRT

<213> Artificial Sequence

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Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr  
1 5 10 15

Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr  
20 25 30

Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe  
35 40 45

Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro  
50 55 60

Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gly Arg Gly Asp  
65 70 75 80

Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr  
85 90

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<211> 84

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Gln Met Gln Val Thr Asp Val Gln Asp Asn Ser Ile Ser Val Lys Trp  
1 5 10 15

Leu Pro Ser Ser Ser Pro Val Thr Gly Tyr Arg Val Thr Thr Thr Pro  
20 25 30

Lys Asn Gly Pro Gly Pro Thr Lys Thr Lys Thr Ala Gly Pro Asp Gln  
35 40 45

Thr Glu Met Thr Ile Glu Gly Leu Gln Pro Thr Val Glu Tyr Val Val  
50 55 60

Ser Val Tyr Ala Gln Asn Pro Ser Gly Glu Ser Gln Pro Leu Val Gln  
65 70 75 80

Thr Ala Val Thr

<210> 5  
 <211> 92  
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 <223> Chemically synthesized partial region of fibronectin named III-12  
  
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Ala Ile Pro Ala Pro Thr Asp Leu Lys Phe Thr Gln Val Thr Pro Thr  
 1 5 10 15

Ser Leu Ser Ala Gln Trp Thr Pro Pro Asn Val Gln Leu Thr Gly Tyr  
 20 25 30

Arg Val Arg Val Thr Pro Lys Glu Lys Thr Gly Pro Met Lys Glu Ile  
 35 40 45

Asn Leu Ala Pro Asp Ser Ser Ser Val Val Val Ser Gly Leu Met Val  
 50 55 60

Ala Thr Lys Tyr Glu Val Ser Val Tyr Ala Leu Lys Asp Thr Leu Thr  
 65 70 75 80

Ser Arg Pro Ala Gln Gly Val Val Thr Thr Leu Glu  
 85 90

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Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr  
 1 5 10 15

Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gly Phe  
 20 25 30

Gln Val Asp Ala Val Pro Ala Asn Gly Gln Thr Pro Ile Gln Arg Thr  
 35 40 45

Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly  
50 55 60

Thr Asp Tyr Lys Ile Tyr Leu Tyr Thr Leu Asn Asp Asn Ala Arg Ser  
65 70 75 80

Ser Pro Val Val Ile Asp Ala Ser Thr  
85

<210> 7

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized partial region of fibronectin named III-14

<400> 7

Ala Ile Asp Ala Pro Ser Asn Leu Arg Phe Leu Ala Thr Thr Pro Asn  
1 5 10 15

Ser Leu Leu Val Ser Trp Gln Pro Pro Arg Ala Arg Ile Thr Gly Tyr  
20 25 30

Ile Ile Lys Tyr Glu Lys Pro Gly Ser Pro Pro Arg Glu Val Val Pro  
35 40 45

Arg Pro Arg Pro Gly Val Thr Glu Ala Thr Ile Thr Gly Leu Glu Pro  
50 55 60

Gly Thr Glu Tyr Thr Ile Tyr Val Ile Ala Leu Lys Asn Asn Gln Lys  
65 70 75 80

Ser Glu Pro Leu Ile Gly Arg Lys Lys Thr  
85 90

<210> 8

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized partial region of fibronectin named CS-1

<400> 8



Asp Glu Leu Pro Gln Leu Val Thr Leu Pro His Pro Asn Leu His Gly  
1 5 10 15

Pro Glu Ile Leu Asp Val Pro Ser Thr  
20 25

<210> 9  
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<212> PRT  
<213> Human

<220>  
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<222> (1)..(274)  
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<400> 9

Pro Thr Asp Leu Arg Phe Thr Asn Ile Gly Pro Asp Thr Met Arg Val  
1 5 10 15

Thr Trp Ala Pro Pro Pro Ser Ile Asp Leu Thr Asn Phe Leu Val Arg  
20 25 30

Tyr Ser Pro Val Lys Asn Glu Glu Asp Val Ala Glu Leu Ser Ile Ser  
35 40 45

Pro Ser Asp Asn Ala Val Val Leu Thr Asn Leu Leu Pro Gly Thr Glu  
50 55 60

Tyr Val Val Ser Val Ser Ser Val Tyr Glu Gln His Glu Ser Thr Pro  
65 70 75 80

Leu Arg Gly Arg Gln Lys Thr Gly Leu Asp Ser Pro Thr Gly Ile Asp  
85 90 95

Phe Ser Asp Ile Thr Ala Asn Ser Phe Thr Val His Trp Ile Ala Pro  
100 105 110

Arg Ala Thr Ile Thr Gly Tyr Arg Ile Arg His His Pro Glu His Phe  
115 120 125

Ser Gly Arg Pro Arg Glu Asp Arg Val Pro His Ser Arg Asn Ser Ile  
130 135 140

Thr Leu Thr Asn Leu Thr Pro Gly Thr Glu Tyr Val Val Ser Ile Val  
145 150 155 160

Ala Leu Asn Gly Arg Glu Glu Ser Pro Leu Leu Ile Gly Gln Gln Ser  
165 170 175

Thr Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro  
180 185 190

Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr  
195 200 205

Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu  
210 215 220

Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys  
225 230 235 240

Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gly Arg Gly  
245 250 255

Asp Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr Glu  
260 265 270

Ile Asp

<210> 10  
<211> 271  
<212> PRT  
<213> Human

<220>  
<221> misc  
<222> (1)..(271)  
<223> Fibronectin fragment named H-271

<400> 10

Ala Ile Pro Ala Pro Thr Asp Leu Lys Phe Thr Gln Val Thr Pro Thr  
1 5 10 15

Ser Leu Ser Ala Gln Trp Thr Pro Pro Asn Val Gln Leu Thr Gly Tyr  
20 25 30

Arg Val Arg Val Thr Pro Lys Glu Lys Thr Gly Pro Met Lys Glu Ile  
35 40 45

Asn Leu Ala Pro Asp Ser Ser Ser Val Val Val Ser Gly Leu Met Val  
50 55 60

Ala Thr Lys Tyr Glu Val Ser Val Tyr Ala Leu Lys Asp Thr Leu Thr  
65 70 75 80

Ser Arg Pro Ala Gln Gly Val Val Thr Thr Leu Glu Asn Val Ser Pro  
85 90 95

Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr Thr Ile Thr Ile  
100 105 110

Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gly Phe Gln Val Asp Ala  
115 120 125

Val Pro Ala Asn Gly Gln Thr Pro Ile Gln Arg Thr Ile Lys Pro Asp  
130 135 140

Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr Asp Tyr Lys  
145 150 155 160

Ile Tyr Leu Tyr Thr Leu Asn Asp Asn Ala Arg Ser Ser Pro Val Val  
165 170 175

Ile Asp Ala Ser Thr Ala Ile Asp Ala Pro Ser Asn Leu Arg Phe Leu  
180 185 190

Ala Thr Thr Pro Asn Ser Leu Leu Val Ser Trp Gln Pro Pro Arg Ala  
195 200 205

Arg Ile Thr Gly Tyr Ile Ile Lys Tyr Glu Lys Pro Gly Ser Pro Pro  
210 215 220

Arg Glu Val Val Pro Arg Pro Arg Pro Gly Val Thr Glu Ala Thr Ile  
225 230 235 240

Thr Gly Leu Glu Pro Gly Thr Glu Tyr Thr Ile Tyr Val Ile Ala Leu  
245 250 255

Lys Asn Asn Gln Lys Ser Glu Pro Leu Ile Gly Arg Lys Lys Thr

260

265

270

&lt;210&gt; 11

&lt;211&gt; 296

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic fibronectin fragment named H-296

&lt;400&gt; 11

Ala Ile Pro Ala Pro Thr Asp Leu Lys Phe Thr Gln Val Thr Pro Thr  
1 5 10 15

Ser Leu Ser Ala Gln Trp Thr Pro Pro Asn Val Gln Leu Thr Gly Tyr  
20 25 30

Arg Val Arg Val Thr Pro Lys Glu Lys Thr Gly Pro Met Lys Glu Ile  
35 40 45

Asn Leu Ala Pro Asp Ser Ser Ser Val Val Val Ser Gly Leu Met Val  
50 55 60

Ala Thr Lys Tyr Glu Val Ser Val Tyr Ala Leu Lys Asp Thr Leu Thr  
65 70 75 80

Ser Arg Pro Ala Gln Gly Val Val Thr Thr Leu Glu Asn Val Ser Pro  
85 90 95

Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr Thr Ile Thr Ile  
100 105 110

Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gly Phe Gln Val Asp Ala  
115 120 125

Val Pro Ala Asn Gly Gln Thr Pro Ile Gln Arg Thr Ile Lys Pro Asp  
130 135 140

Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr Asp Tyr Lys  
145 150 155 160

Ile Tyr Leu Tyr Thr Leu Asn Asp Asn Ala Arg Ser Ser Pro Val Val  
165 170 175

Ile Asp Ala Ser Thr Ala Ile Asp Ala Pro Ser Asn Leu Arg Phe Leu  
180 185 190

Ala Thr Thr Pro Asn Ser Leu Leu Val Ser Trp Gln Pro Pro Arg Ala  
195 200 205

Arg Ile Thr Gly Tyr Ile Ile Lys Tyr Glu Lys Pro Gly Ser Pro Pro  
210 215 220

Arg Glu Val Val Pro Arg Pro Arg Pro Gly Val Thr Glu Ala Thr Ile  
225 230 235 240

Thr Gly Leu Glu Pro Gly Thr Glu Tyr Thr Ile Tyr Val Ile Ala Leu  
245 250 255

Lys Asn Asn Gln Lys Ser Glu Pro Leu Ile Gly Arg Lys Lys Thr Asp  
260 265 270

Glu Leu Pro Gln Leu Val Thr Leu Pro His Pro Asn Leu His Gly Pro  
275 280 285

Glu Ile Leu Asp Val Pro Ser Thr  
290 295

<210> 12

<211> 549

<212> PRT

<213> Artificial Sequence

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<223> Synthetic fibronectin fragment named CH-271

<400> 12

Pro Thr Asp Leu Arg Phe Thr Asn Ile Gly Pro Asp Thr Met Arg Val  
1 5 10 15

Thr Trp Ala Pro Pro Pro Ser Ile Asp Leu Thr Asn Phe Leu Val Arg  
20 25 30

Tyr Ser Pro Val Lys Asn Glu Glu Asp Val Ala Glu Leu Ser Ile Ser  
35 40 45

Pro Ser Asp Asn Ala Val Val Leu Thr Asn Leu Leu Pro Gly Thr Glu  
50 55 60

Tyr	Val	Val	Ser	Val	Ser	Ser	Val	Tyr	Glu	Gln	His	Glu	Ser	Thr	Pro	65	70	75	80
Leu	Arg	Gly	Arg	Gln	Lys	Thr	Gly	Leu	Asp	Ser	Pro	Thr	Gly	Ile	Asp	85	90	95	
Phe	Ser	Asp	Ile	Thr	Ala	Asn	Ser	Phe	Thr	Val	His	Trp	Ile	Ala	Pro	100	105	110	
Arg	Ala	Thr	Ile	Thr	Gly	Tyr	Arg	Ile	Arg	His	His	Pro	Glu	His	Phe	115	120	125	
Ser	Gly	Arg	Pro	Arg	Glu	Asp	Arg	Val	Pro	His	Ser	Arg	Asn	Ser	Ile	130	135	140	
Thr	Leu	Thr	Asn	Leu	Thr	Pro	Gly	Thr	Glu	Tyr	Val	Val	Ser	Ile	Val	145	150	155	160
Ala	Leu	Asn	Gly	Arg	Glu	Glu	Ser	Pro	Leu	Leu	Ile	Gly	Gln	Gln	Ser	165	170	175	
Thr	Val	Ser	Asp	Val	Pro	Arg	Asp	Leu	Glu	Val	Val	Ala	Ala	Thr	Pro	180	185	190	
Thr	Ser	Leu	Leu	Ile	Ser	Trp	Asp	Ala	Pro	Ala	Val	Thr	Val	Arg	Tyr	195	200	205	
Tyr	Arg	Ile	Thr	Tyr	Gly	Glu	Thr	Gly	Gly	Asn	Ser	Pro	Val	Gln	Glu	210	215	220	
Phe	Thr	Val	Pro	Gly	Ser	Lys	Ser	Thr	Ala	Thr	Ile	Ser	Gly	Leu	Lys	225	230	235	240
Pro	Gly	Val	Asp	Tyr	Thr	Ile	Thr	Val	Tyr	Ala	Val	Thr	Gly	Arg	Gly	245	250	255	
Asp	Ser	Pro	Ala	Ser	Ser	Lys	Pro	Ile	Ser	Ile	Asn	Tyr	Arg	Thr	Glu	260	265	270	
Ile	Asp	Lys	Pro	Ser	Met	Ala	Ile	Pro	Ala	Pro	Thr	Asp	Leu	Lys	Phe	275	280	285	

Thr Gln Val Thr Pro Thr Ser Leu Ser Ala Gln Trp Thr Pro Pro Asn  
290 295 300

Val Gln Leu Thr Gly Tyr Arg Val Arg Val Thr Pro Lys Glu Lys Thr  
305 310 315 320

Gly Pro Met Lys Glu Ile Asn Leu Ala Pro Asp Ser Ser Ser Val Val  
325 330 335

V